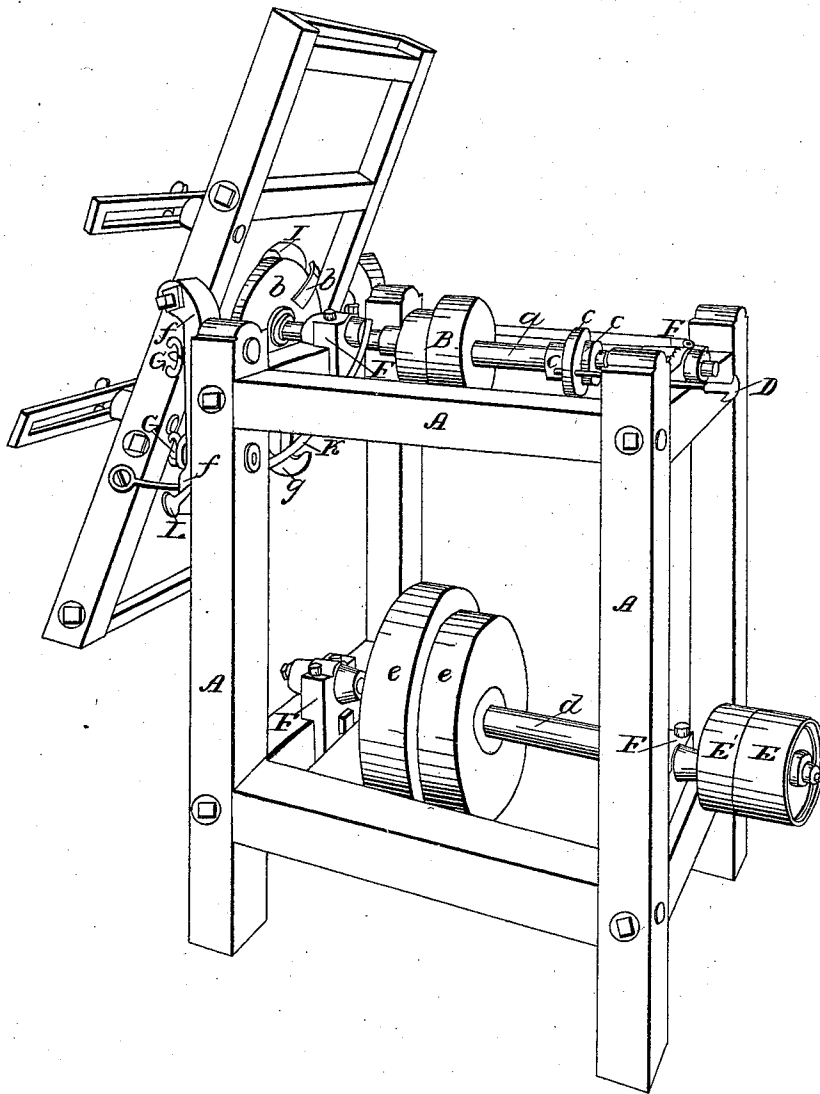


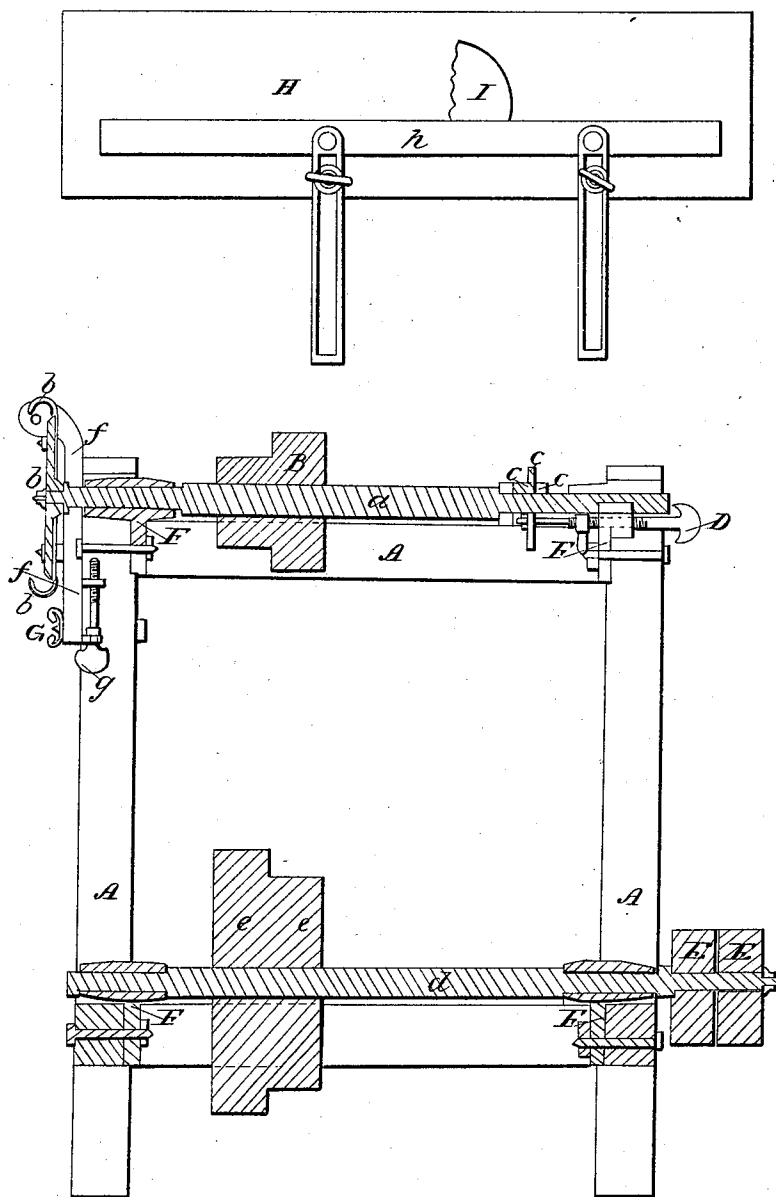
*B. B. Slade,* *3 Sheets-Sheet 1.*  
*Wood Molding Machine.*  
*No 586. Patented Jan. 27, 1838.*





3 Sheets-Sheet 3.

*B. B. Slade,*  
*Wood Molding Machine.*  
*Nº 586.                      Patented Jan. 27, 1838*



# UNITED STATES PATENT OFFICE.

BENJ. B. SLADE, OF CUMBERLAND, RHODE ISLAND.

## MACHINE FOR CUTTING LAGGING.

Specification of Letters Patent No. 586, dated January 27, 1838.

*To all whom it may concern:*

Be it known that I, BENJAMIN B. SLADE, of Cumberland, in the county of Providence, State of Rhode Island, formerly of Smithfield, in said county and State, have invented a new and useful Improvement on Lagging-Machines; and I do hereby declare that the following is a full and exact description of the same.

10 The nature of my invention consists in applying to the lagging machine a platform hanging upon swivels with a slide gage upon the top of said platform in combination with rotary cutters so as to cut different  
15 sized circles with the same cutters.

To enable others skilled in mechanics to make and use my invention, I will proceed to describe the construction and operation of the "lagging machine" as improved by me.

20 The frame A of said machine is of wood and consists of four posts joined together by eight girths, two at each end and two on each side; upon the top of the two upper girths at the end of said frame is a shaft *a*  
25 running lengthwise of the machine, with a cone of pulleys B near the center of said shaft and at the end of said shaft is a wheel *b* with two gouge or rotary cutters *b b* attached to it, and attached to said shaft  
30 near the other end of it are two collars *c* with a wheel *c'* between them, said collar being fastened to said shaft and the wheel being loose; connected with this wheel is a thumb-screw D running through the box in  
35 which the shaft plays for the purpose of moving the shaft endwise with a hand nut on said thumb screw to hold it steady. Across the two lower end girths is another shaft *d* with a tight and loose pulley E',  
40 E at one end for the purpose of driving said shaft, and near the center of said shaft is a cone of pulleys *e e* to drive the upper shaft. Both of said shafts, the upper and lower, run in boxes F F attached to the upper and  
45 lower end girths. Fastened to the posts at the top of one end of the frame is an iron slide *f* with four slots in it, and fastened to said posts by four bolts with thumb-

nuts G G. Said slide is made of iron and has two sides and a bottom piece and the whole slide is made of one piece of iron. The bottom of this slide is connected with a thumb-screw *g* by which the slide is raised and lowered. The thumb-screw runs into a nut attached to the under side of the upper  
55 girth. Attached to this slide is a wooden framed platform H. Said platform hangs on swivels passing through the top of said slide and entering said platform near its center. On each of said swivels is a nut.  
60 Said platform consists of two side pieces and four girths upon the under side with a board between the two side pieces upon the top of said girth. The side pieces and girths are held together by eight joint bolts.  
65 Upon the top of said platform is a slide gage *h* to guide the log so that it may be cut of any size. By moving the gage angling with the platform, smaller circles can be cut by the cutters. In the top of the platform near  
70 the center and immediately above the wheel on the upper shaft is a circular hole I through which the cutters play. To the side of this platform is attached a circular slide K made of iron, which runs through a slot  
75 in the bottom-piece of the slide attached to the posts, and regulated by a thumb-screw L. The purpose of said slide is for lowering one end of said platform and holding it in  
80 its place so that larger circles may be cut when the gage lies lengthwise with the platform.

What I claim as my own invention and desire to secure by Letters Patent is—

The platform hanging on swivels and the slide-gage on the top of said platform in combination with the rotary cutters the whole constituting a lagging machine for cutting different sized circles with the same cutters, all constructed substantially as above  
85 described.

BENJAMIN B. SLADE.

Witnesses:

CHRISTOPHER ROBINSON,  
DARIUS SIBLEY.